

NADH-dependent cytochrome b5 reductase as target for herbicides

Abstract

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The present invention relates to the use of a polypeptide with the biological activity of an NADH-dependent cytochrome b5 reductase (E.C. 1.6.2.2), which, when not present, brings about growth retardation symptoms and chlorotic leaves, and which is encoded by the nucleic acid sequence SEQ ID NO:1 or functional equivalents of the abovementioned nucleic acid sequence, as target for herbicides. Functional equivalents of SEQ ID NO:1 are provided in this context. Moreover, the present invention relates to the use of the polypeptide with the biological activity of an NADH-dependent cytochrome b5 reductase in a method for identifying herbicidally active compounds which inhibit NADH-dependent cytochrome b5 reductase. Moreover, the invention relates to the compounds identified by the method for use as herbicides.

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